Patent and Trademark Office. U.S. DEPARTMENT OF COMMERCE Under the Paperwork Reduction Act of 1995, no persons are required to

UTILITY **PATENT APPLICATION TRANSMITTAL**

(Only for new nonprovisional applications under 37 CFR & 1.53(b))

	y Docket No.	nation unless it displays a valid OMB control number 2072.0010002/LBB/SJE					
First In	ventor	Michelle M. HANNA	2				
Title	Molecular D Oligonucleo	Molecular Detection Systems Utilizing Reiterative Oligonucleotide Synthesis					

Date

					Expres	s Mail Label N	o				13
	APP See MPEP chapter	PLICATION ELEMI 600 concerning utility patent	ENTS application contents.	Al	DDR	ESS TO:	Mail S P.O. B	top Patent ox 1450	for Patents t Application 22313-1450		16447
 2. 3. 	 (Submit an original origi	[Total Page gement set forth below]	ocessing)		Nucle (ij a. [Appendix) cotide and/or A applicable, all Computer R ecification Sequences	Amino A necessar eadable F uence Lis	cid Sequ y) orm (CR ting on:	e, large table or uence Submissi	-	ter Program
	- Statement Regar - Reference to se or a computer pro- - Background of - Brief Summary	- Cross Reference to Related Applications - Statement Regarding Fed sponsored R & D - Reference to sequence listing, a table, or a computer program listing appendix - Background of the Invention - Brief Summary of the Invention - Brief Description of the Drawings (if filed) - Detailed Description - Claim(s) - Abstract of the Disclosure	ii. paper c. Statements verifying identity of above copies ACCOMPANYING APPLICATION PARTS								
	 Detailed Descri Claim(s) 			9.	П				t & document(s))		
4. [2 5. (Dath or Declaration	35 U.S.C. 113) [Total Sho [Total Page ecuted (original or copy]	$\frac{31}{2}$	10. 11.	_	37 CFR 3.73(when there is a English Trans	(b) Staten an assigned	nent	Power of A		
 b. Copy from a prior application (37 CFR 1.63(d)) (for continuation/divisional with Box 18 completed) i. DELETION OF INVENTOR(S) 				12. 13. 14.		Information I Statement (IE Preliminary A	OS)/PTO-1	1449 nt	Copies of II Citations)S	
б. Б	☑ Application Da	Signed statement attached named in the prior applica 1.63(d)(2) and 1.33(b). atta Sheet. See 37 CFR 1	ed in the prior application, see 37 CFR §§ (d)(2) and 1.33(b). heet. See 37 CFR 1.76.	15. 16.		(Should be spec Certified Cop (if foreign prior Nonpublication form PTO/SB/3	rds (MPEP 503) ment(s) 7.S.C. 122 (b)(2)(B) 7. C.F.R. § 1.136		ant must attach		
					×	Other: The	name of	he assign	nee is: Designer (Genes, Inc	<u>.</u>
18. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in a preliminary amendment, or in an Application Data Sheet under 37 CFR 1.76: Continuation Divisional Continuation-in-Part (CIP) of prior application No: 09/984,664 Prior application information: Examiner Young J. Kim Group/Art Unit: 1637 For CONTINUATION OR DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 5b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts.											
			19. CORRESPON	IDE	KCE A	ADDRESS					
Customer Number or Bar Code Label Customer No. 26111 (Insert Customer No. Or Atile 1 by code label here) VAME Sterne, Kessler, Goldstein & Fox Place Patent trademark office											
4DD	Attorneys at Law DDRESS										
CITY			STATE TELEPHONE				ZIP FAX	CODE			
VAM	E (Print/Type)	Lawrence B. Bugaisky			Regi	stration No. (Al	ttorney/Age	(nt) 3:	5,086		

This collection of information is required by 37 CFR 1.53(b). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you are required to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO:: Mail Stop Patent Application, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.SKGF_DC1:135159.1

SKGF Rev 5/16/03 mac #135159v1<SKGF_DC1> -2072.0010002: 06-16-2003 Divisional Application - .wxd

9	
6/2	
رنت	<u> </u>

FEE TRANSMITTAL for FY 2003

Patent fees are subject to annual revision.

Examiner Name Applicant claims small entity status. See 37 CFR 1.27

Complete if Known **Application Number** To Be Assigned Filing Date Herewith First Named Inventor Michelle M. HANNA To Be Assigned **Art Unit** To Be Assigned Attorney Docket No 2072.0010002/LBB/SJE

TOTAL AMOUNT OF PAYMENT (\$)1,484.00		Attorn	ey Doc	ket No	2072.001000				
METHOD OF PAYMENT (check all that apply)				F	EE CALCULATION	(continue	d)		
☐ Check 🏿 Credit card ☐ Money Order 🔻 Other** ☐ None	3. A	DDITIC	NAL F			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			
** Charge any deficiencies or credit any overpayments in the fees or fee calculations of Parts 1, 2 and 3 below to Deposit Account No. 19-0036.			Large Entity Small Entity						
Deposit Account Deposit Account Number 19-0036	Fee Code	Fee (\$)	Fee Code	Fee (\$)	Fee Descrip	tion	Fe	e Paid	
Deposit Account Name: Sterne, Kessler, Goldstein & Fox P.L.L.C.	1051	130	2051	65	Surcharge - late filing	fee or oath	<u> </u>		
The Commissioner is authorized to: (check all that apply)	1502	50	2052	25	Surcharge-late provis	sional filing fe	e or cover		
□Charge fee(s) indicated below □Credit any over payments	1053	130	1053	130	Non-English specifica	ation	-		
Charge any additional fee(s) during the pendency of this application	1812	2,520	l l		- '		yamination		
Charge fee(s) indicated below, except for the filing fee to the above-	1804	920*	1804		Reguesting publication		<u> </u>		
identified deposit account.		020	1,00	020	action	in or Sirk pho	1 to Examiner		
	1805	1,840	1805	1,840°	 Requesting publication 	on of SIR afte	r Examiner		
	1251	110	2251	55	Extension for reply wi	thin first mon	th		
	1252	410	2252	205	5 Extension for reply within second month				
FEE CALCULATION	1253	930	2253	465	Extension for reply wi	thin third mo	nth		
1. BASIC FILING FEE	1254	1,450	2254	725	Extension for reply wi	thin fourth me	onth		
Large Entity Small Entity	1255	1,970	2255	985	Extension for reply wi	thin fifth mon	th -		
Fee Fee Fee Fee Fee Description Fee Paid	1401	320	2401	160	Notice of Appeal		<u> </u>		
Code (\$) Code (\$) 1001 750 2001 375 Utility filing fee \$375.00	1402	320	2402	160	Filing a brief in suppo	rt of an appe	ai		
1001 750 2001 375 Utility filing fee \$375.00 1002 330 2002 165 Design filing fee	1403	280	2403	140	Request for oral heari	ino	<u> </u>		
1003 520 2003 260 Plant filing fee	1451	1,510	ı	1,510	•	Ū	accident L		
1004 750 2004 375 Reissue filing fee	1				·	•	ceeding		
1105 160 2005 80 Provisional filing fee	1452	110	2452	55	Petition to revive - una				
1	1453	1,300	2453	650	Petition to revive - uni	ntentional			
SUBTOTAL (1) (\$) 375.00	1501	1,300	2501	650	Utility issue fee (or rei	ssue)			
2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE Fee from			2502	235	Design issue fee				
Extra below Fee Paid	1503	630	2503	315	Plant issue fee				
Total Claims 109 - 20** = 89 X 9.00 = 801.00	1460	130	1460	130	Petitions to the Comm	issioner			
Indep. Claims <u>7</u> - 3** = <u>4</u> X <u>42.00</u> = <u>168.00</u>	4007								
Multiple Dependent <u>140.00</u> = <u>140.00</u>	1807	50	1807	50	Processing fee under	37 CFR 1.17	(p)		
Large Entity Small Entity	1806	180	1806	180	Submission of Informa	ation Disclosu	ıre Stmt		
Fee Fee Fee Fee <u>Fee Description</u> Code (\$)	8021	40	8021	40	Recording each paten property (times number	t assignment	per		
1202 18 2202 9 Claims in excess of 20	1809	750	2809	375	Filing a submission aff				
1201 84 2201 42 Independent claims in excess of 3					1.129(a))		·		
1203 280 2203 140 Multiple dependent claim, if not paid 1204 84 2204 42 **Reissue independent claims	1810	750	2810	375	For each additional inv (37 CFR 1.129(b))	vention to be	examined		
1204 84 2204 42 **Reissue independent claims over original patent	1801	750	2801	375	Request for Continued	Examination	(RCE)		
1205 18 2205 9 **Reissue claims in excess of 20	1802	900	1802	900	Request for expedited	evamination	of a design		
and over original patent					application	CABITITION	or a design		
SUBTOTAL (2) (\$)1,109.00	Other fo	Other fee (specify)							
*or number previously paid, if greater; For Reissue, see above	* Redu	educed by Basic Filing Fee Paid SUBTOTAL (3)				(3) (\$)0			
SUBMITTED BY	-					Complete	(if applicable)		
Name (Print/Type) Lawrence B. Bugaisky	Registr (Attorney/	ration No Agent)	D .	一 :	35,086	Telephone 202-371-2600			
Signature Lewer B. Bergush						Date	Que 23 20		
WARNING: Information on this form may	become	public	Credit	cardi	information should no	•	yene a , a	- 0 /	

This collection of information is required by 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Department of Commerce, O.P. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

Michelle M. Hanna

Appl. No. To Be Assigned (Div. of Appl. No.09/984,664; Filed: October 30, 2001)

Filed: Herewith

For:

Molecular Detection Systems

Utilizing Reiterative Oligonucleotide Synthesis Confirmation No.

Art Unit: To Be Assigned

Examiner: To Be Assigned

Atty. Docket: 2072.0010002/LBB/SJE

Authorization To Treat A Reply As Incorporating An Extension Of Time Under 37 C.F.R. § 1.136(a)(3)

Commissioner for Patents PO Box 1450 Alexandria, VA 22313-1450

Sir:

The U.S. Patent and Trademark Office is hereby authorized to treat any concurrent or future reply that requires a petition for an extension of time under this paragraph for its timely submission, as incorporating a petition for extension of time for the appropriate length of time. The U.S. Patent and Trademark Office is hereby authorized to charge all required extension of time fees to our Deposit Account No. 19-0036, if such fees are not otherwise provided for in such reply.

Respectfully submitted,

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.

Lawrence B. Bugaisky Attorney for Applicant Registration No. 35,086

Date:

- Jul 2), 200

1100 New York Avenue, N.W. Washington, D.C. 20005-3934 (202) 371-2600

SKGF_DC1;135175.1



Robert Greene Sterne Edward J. Kessler Jorge A. Goldstein David K.S. Cornwell Robert W. Esmond Tracy-Gene G. Durkin Michael B. Ray Robert E. Sokohl Eric K. Steffe Michael Q. Lee Steven R. Ludwig John M. Covert Linda E. Alcorn Robert C. Millonig Lawrence B. Bugaisky Donald J. Featherstone Michael V. Messinner Judith U. Kim
Timothy J. Shea, Jr.
Patrick E. Garrett
Heidi L. Kraus
Edward W. Yee
Albert L. Ferro*
Donald R. Banowit
Peter A. Jackman
Molly A. McCall
Teresa U. Medler
Jeffrey S. Weaver
Kendrick P. Patterson
Vincent L. Capuano
Albert J. Fasulo II*
Eldora Ellison Floyd
Thomas C. Fiala
Brian J. Del Buono
Virgil Lee Beaston*

Kimberly N. Reddick Theodore A. Wood Elizabeth J. Haanes Bruce E. Chalker Joseph S. Ostroff Frank R. Cottingham Christine M. Lhulier Rae Lynn Prengaman Jane Shershenovich* Lawrence J. Carroll* George S. Bardmesser Daniel A. Klein* Rodney G. Maze Jason D. Eisenberg Michael A. Specht' Andrea J. Kamage Tracy L. Muller* Jon E. Wright*

n in *

LuAnne M. Yuricek*

Registered Patent Agents*
Karen R. Markowicz
Nancy J. Leith
Ann E. Summerfield
Helene C. Carlson
Gaby L. Longsworth
Matthew J. Dowd
Aaron L. Schwartz
Angelique G. Uy
Mary B. Tung
Katrina Y. Pei
Bryan L. Skelton
Robert A. Schwartzman
John J. Figueroa
Timothy A. Doyle
Jennifer R. Mahalingappa

Mail Stop Patent Application

Teresa A. Colella Jeffrey S. Lundgren Victoria S. Rutherford

Of Counsel Kenneth C. Bass III Lisa A. Dunner Evan R. Smith

*Admitted only in Maryland * Admitted only in Virginia • Practice Limited to Federal Agencies

June 23, 2003

WRITER'S DIRECT NUMBER: (202) 772-8589 INTERNET ADDRESS: LARRYB@SKGF.COM

Commissioner for Patents PO Box 1450 Alexandria, VA 22313-1450

Re:

U.S. Non-Provisional Utility Patent Application under 37 C.F.R. § 1.53(b)

Appl. No. To Be Assigned; Filed: Herewith

(Div. of Appl. No. 09/984,664; Filed: October 30, 2001)

For:

Molecular Detection Systems Utilizing Reiterative Oligonucleotide

Synthesis

Inventor:

Michelle M. Hanna

Our Ref:

2072.0010002/LBB/SJE

Sir:

The following documents are forwarded herewith for appropriate action by the U.S. Patent and Trademark Office:

- 1. PTO Fee Transmittal (Form PTO/SB/17);
- 2. PTO Utility Patent Application Transmittal (Form PTO/SB/05);
- 3. U.S. Utility Patent Application entitled:

Molecular Detection Systems Utilizing Reiterative Oligonucleotide Synthesis

and naming as inventor:

Michelle M. HANNA

the application consisting of:

Sterne, Kessler, Goldstein & Fox PLLC.: 1100 New York Avenue, NW: Washington, DC 20005: 202.371.2600 f 202.371.2540: www.skgf.com

- a. An Application Data Sheet (37 C.F.R. § 1.76);
- b. A copy of the executed Declaration, as originally filed in U.S. Appl. No. 09/984,664;
- c. A specification containing:
 - i. 101 pages of description prior to the claims;
 - ii. 27 pages of claims (135 claims);
 - iii. a one (1) page abstract;
- d. 33 sheets of drawings: (Figures 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29A, 29B, 29C, 30 and 31; and
- e. 16 pages of a paper copy of a sequence listing;
- 4. Request to Open New Disk File;
- 5. Authorization to Treat a Reply As Incorporating An Extension of Time Under 37 C.F.R. § 1.136(a)(3);
- 6. A Preliminary Amendment;
- 7. Request to Approve Proposed Drawing Corrections;
- 8. Photocopy of the 6 sheets of drawings with the corrections noted in red;
- 9. Letter to PTO Draftsman: Submission of Formal Drawings;
- 10. 31 sheets of formal drawings (Figures 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29A, 29B, and 30;
- 11. An Information Disclosure Statement (IDS);
- 12. Form PTO-1449 (11 pages) listing 55 cited documents;
- 13. PTO-2038 Credit Card Payment Form for \$1,484.00 to cover: \$375.00 Basic Utility Non-provisional filing fee; (37 C.F.R. § 1.16);

Commissioner for Patents June 23, 2003 Page 3

\$_801.00 Extra claims fee; (37 C.F.R. § 1.16);

\$_168.00 Extra Independent claims fee;(37 C.F.R. § 1.16);

\$_140.00 Multiple Dependent claims fee;(37 C.F.R. § 1.16); and

14. Two (2) return postcards.

It is respectfully requested that, of the two attached postcards, one be stamped with the filing date of these documents and returned to our courier, and the other, prepaid postcard, be stamped with the filing date and unofficial application number and returned as soon as possible. The U.S. Patent and Trademark Office is hereby authorized to charge any fee deficiency, or credit any overpayment, to our Deposit Account No. 19-0036.

Respectfully submitted,

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.

Tames B. Bugard

Lawrence B. Bugaisky Attorney for Applicant

Registration No. 35,086

LBB/SJE/cjs Enclosures

SKGF_DC1;135145.1